



BRUHAT BANGALORE MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 40.00 Lakhs

Head of Account : P3726 Zonal Public Works - POW Works

Job Code: 015-23-000010

Name of Agency: Sri.Nagoor Lokanadha Reddy, Flat No. 102, 1st Floor, No. 2, MSNR Enclave, 2nd Cros, Manorayana Palya, RT Nagar Post, Bangalore - 560 032.

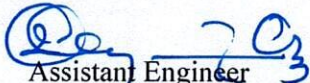
Work order No: BBMP/EE/BTP/WO/133/2022-23 D: 02-03-2023.

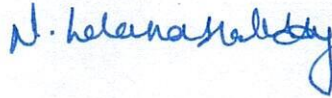
Measurements Recorded on : 03-03-2023

Sl. No.	Description of Item	Measurments				Qty	Unit
		No.s	L	B	D		
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost. In all kinds of soils Depth upto 1.5 m						
	For New CC Drain - Earthwork						
	Singapura Paradise 3rd Main						
	From Main Road to 1st Cross						
	N/S	1	15.00	1.00	1.00	15.00	1 c/c
		1	10.60	1.00	1.00	10.60	
	From 1st Cross to 2nd Cross						
	N/S	1	15.00	1.00	1.00	15.00	
		1	10.80	1.00	1.00	10.80	
	From 2nd Cross to 3rd Cross						
	N/S	1	15.00	1.00	1.00	15.00	
		1	11.60	1.00	1.00	11.60	
	From 3rd Cross to end						
	N/S	1	13.00	1.00	1.00	13.00	
	From 1st Main Road to 1st Cross						
	S/S	1	15.00	1.00	1.00	15.00	
		1	11.00	1.00	1.00	11.00	
	From 1st Cross to Ground						
		1	15.00	1.00	1.00	15.00	1 c/c
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.30	1.00	1.00	5.30	
	1st Cross to Wards S/S						
	W/S	1	14.60	1.00	1.00	14.60	
	1st Cross to Wards N/S SWD						
	W/S	1	15.00	1.00	1.00	15.00	AEE (VRP) S

AEE (VRP) SC

No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.60	1.00	1.00	15.60	
	From SWD to 3rd Main Road						
	E/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	11.40	1.00	1.00	11.40	
	2nd Cross to Wards N/S SWD						
	W/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	6.50	1.00	1.00	6.50	
	From SWD to 3rd Main Road						
	E/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	16.00	1.00	1.00	16.00	
	Culverts						
	Singapura Paradise 3rd Main Middle	1	7.00	1.80	1.00	12.60	
	1st Cross Entrance to Wards S/S	1	6.25	1.50	1.00	9.38	
	3rd Cross Entrance to Wards N/S	1	6.75	1.50	1.00	10.13	
			Total Qty =			458.50	
			Qty Ltd Approved Qty =			450.00	


Assistant Engineer
Ward No. 15


N. Helenahally


Assistant Executive Engineer
Vidyanarayapura Sub Division
B.B.M.P, Bangalore - 97

Sl. No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		

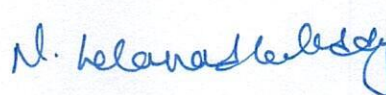
Measurements Recorded on : 10-03-2023

2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates						
	For New CC Drain - Bed Concrete						
	Singapura Paradise 3rd Main						
	From Main Road to 1st Cross						
	N/S	1	15.00	1.00	0.15	2.25	
		1	10.60	1.00	0.15	1.59	
	From 1st Cross to 2nd Cross						
	N/S	1	15.00	1.00	0.15	2.25	
		1	10.80	1.00	0.15	1.62	
	From 2nd Cross to 3rd Cross						
	N/S	1	15.00	1.00	0.15	2.25	
		1	11.60	1.00	0.15	1.74	
	From 3rd Cross to end						
	N/S	1	13.00	1.00	0.15	1.95	
	From 1st Main Road to 1st Cross						
	S/S	1	15.00	1.00	0.15	2.25	
		1	11.00	1.00	0.15	1.65	
	From 1st Cross to Ground						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.30	1.00	0.15	0.80	
	1st Cross to Wards S/S						
	W/S	1	14.60	1.00	0.15	2.19	
	1st Cross to Wards N/S SWD						
	W/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.60	1.00	0.15	2.34	
	From SWD to 3rd Main Road						
	E/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	11.40	1.00	0.15	1.71	
	2nd Cross to Wards N/S SWD						
	W/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	6.50	1.00	0.15	0.98	
	From SWD to 3rd Main Road						
	E/S	1	15.00	1.00	0.15	2.25	

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No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		
		1	15.00	1.00	0.15	2.25	
		1	16.00	1.00	0.15	2.40	
	Culverts						
	Singapura Paradise 3rd Main Middle	1	7.00	1.80	0.15	1.89	
	1st Cross Enterance to Wards S/S	1	6.25	1.50	0.15	1.41	
	3rd Cross Enterance to Wards N/S	1	6.75	1.50	0.15	1.52	
		Total Qty =				68.78	
		Qty Ltd Approved Qty =				67.20	Cum


 Assistant Engineer
 Ward No. 15


 Assistant Executive Engineer
 Vidyanayapura Sub Division
 B.B.M.P, Bangalore - 97

Sl No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		

Measurements Recorded on : 20-04-2023

- 4 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates

For New CC Drain - Raft							
Singapura Paradise 3rd Main							
From Main Road to 1st Cross							
N/S		1	15.00	0.90	0.15	2.03	
		1	10.60	0.90	0.15	1.43	
From 1st Cross to 2nd Cross							
N/S		1	15.00	0.90	0.15	2.03	
		1	10.80	0.90	0.15	1.46	
From 2nd Cross to 3rd Cross							
N/S		1	15.00	0.90	0.15	2.03	
		1	11.60	0.90	0.15	1.57	
From 3rd Cross to end							
N/S		1	13.00	0.90	0.15	1.76	
From 1st Main Road to 1st Cross							
S/S		1	15.00	0.90	0.15	2.03	
		1	11.00	0.90	0.15	1.49	
From 1st Cross to Ground							
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	5.30	0.90	0.15	0.72	
1st Cross to Wards S/S							
W/S		1	14.60	0.90	0.15	1.97	
1st Cross to Wards N/S SWD							
W/S		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.60	0.90	0.15	2.11	
From SWD to 3rd Main Road							
E/S		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	11.40	0.90	0.15	1.54	
2nd Cross to Wards N/S SWD							
W/S		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	6.50	0.90	0.15	0.88	
From SWD to 3rd Main Road							

Sl No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		
	E/S	1	15.00	1.00	0.15	2.25	] c/c
		1	15.00	1.00	0.15	2.25	
		1	16.00	1.00	0.15	2.40	
	Culverts						
	Singapura Paradise 3rd Main Middle	1	7.00	1.60	0.25	2.80	] c/c
	1st Cross Entrance to Wards S/S	1	6.25	1.40	0.25	2.19	
	3rd Cross Entrance to Wards N/S	1	6.75	1.40	0.25	2.36	
	For New CC Drain - Side Wall						
	Singapura Paradise 3rd Main						
	From Main Road to 1st Cross						
	N/S	2	15.00	0.15	0.62	2.79	<
		2	10.60	0.15	0.62	1.97	
	From 1st Cross to 2nd Cross						
	N/S	2	15.00	0.15	0.58	2.61	<
		2	10.80	0.15	0.60	1.94	
	From 2nd Cross to 3rd Cross						
	N/S	2	15.00	0.15	0.60	2.70	<
		2	11.60	0.15	0.60	2.09	
	From 3rd Cross to end						
	N/S	2	13.00	0.15	0.52	2.03	<
	From 1st Main Road to 1st Cross						
	S/S	2	15.00	0.15	0.60	2.70	<
		2	11.00	0.15	0.60	1.98	
	From 1st Cross to Ground						
		2	15.00	0.15	0.60	2.70	] c/c
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	5.30	0.15	0.56	0.89	
	1st Cross to Wards S/S						
	W/S	2	14.60	0.15	0.60	2.63	<
	1st Cross to Wards N/S SWD						
	W/S	2	16.00	0.15	0.60	2.88	] c/c
		2	4.80	0.15	0.50	0.72	
		2	7.00	0.15	0.60	1.26	
		2	2.50	0.15	0.40	0.30	
		2	15.00	0.15	0.60	2.70	
		2	8.30	0.15	0.60	1.49	
		2	3.70	0.15	0.40	0.44	
		2	15.00	0.15	0.60	2.70	
		2	3.30	0.15	0.60	0.59	
	From SWD to 3rd Main Road						
	E/S	2	15.00	0.15	0.60	2.70	] c/c
		2	15.00	0.15	0.60	2.70	
		2	8.20	0.15	0.60	1.48	
		2	2.40	0.15	0.20	0.14	
		2	15.00	0.15	0.62	2.79	
		2	15.80	0.15	0.58	2.75	
	2nd Cross to Wards N/S SWD						
	W/S	2	15.00	0.15	0.60	2.70	<
		2	15.00	0.15	0.50	2.25	

Sl No.	Description of Item	Measurements				Qty	Unit
		No.s	L	B	D		
		2	15.00	0.15	0.50	2.25	
		2	6.50	0.15	0.60	1.17	
	From SWD to 3rd Main Road						
	E/S	2	6.30	0.15	0.60	1.13	
		2	6.20	0.15	0.50	0.93	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	3.50	0.15	0.58	0.61	
	Culverts						
	Singapura Paradise 3rd Main Middle	2	7.00	0.30	0.35	1.47	
	1st Cross Entrance to Wards S/S	2	6.25	0.30	0.35	1.31	
	3rd Cross Entrance to Wards N/S	2	6.75	0.30	0.45	1.82	
Total Qty =						144.73	
Qty Ltd Approved Qty =						144.70	Cum

Executive Engineer,
(BTP), BBMP.

Assistant Engineer
Ward No. 15

N. Kelanashetty

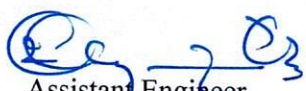
Assistant Executive Engineer
Vidyaranya Sub Division
B.B.M.P, Bangalore - 97

Sl. No.	Description of Item	Measurments				Qty	Unit
		No.s	L	B	D		

Measurements Recorded on : 20-04-2023

5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	U Shape Drains	No	L	Mtrs	Kg/m	Kgs	
	Singapura Paradise 3rd Main						
	From Main Road to 1st Cross						
	10 mm dia	214	2.10	449.40	0.62	278.63	
	8 mm dia	15	25.60	384.00	0.39	149.76	
	Total					428.39	
	From 1st Cross to 2nd Cross						
	10 mm dia	216	2.10	453.60	0.62	281.23	
	8 mm dia	15	25.80	387.00	0.39	150.93	
	Total					432.16	
	From 2nd Cross to 3rd Cross						
	10 mm dia	214	2.10	449.40	0.62	278.63	
	8 mm dia	15	26.60	399.00	0.39	155.61	
	Total					434.24	
	From 3rd Cross to end						
	10 mm dia	109	2.10	228.90	0.62	141.92	
	8 mm dia	15	13.00	195.00	0.39	76.05	
	Total					217.97	
	From 1st Main Road to 1st Cross						
	10 mm dia	217	2.10	455.70	0.62	282.53	
	8 mm dia	15	26.00	390.00	0.39	152.10	
	Total					434.63	
	From 1st Cross to Ground						
	10 mm dia	421	2.10	884.10	0.62	548.14	
	8 mm dia	15	50.30	754.50	0.39	294.26	
	Total					842.40	
	1st Cross to Wards S/S						
	10 mm dia	122	2.10	256.20	0.62	158.84	
	8 mm dia	15	14.60	219.00	0.39	85.41	
	Total					244.25	
	1st Cross to Wards N/S SWD						
	10 mm dia	631	2.10	1325.10	0.62	821.56	
	8 mm dia	15	75.60	1134.00	0.39	442.26	
	Total					1263.82	
	From SWD to 3rd Main Road						
	10 mm dia	596	2.10	1251.60	0.62	775.99	
	8 mm dia	15	71.40	1071.00	0.39	417.69	
	Total					1193.68	
	2nd Cross to Wards N/S SWD						
	10 mm dia	430	2.10	903.00	0.62	559.86	
	8 mm dia	15	51.50	772.50	0.39	301.28	
	Total					861.14	
	From SWD to 3rd Main Road						
	10 mm dia	384	2.10	806.40	0.62	499.97	
	8 mm dia	15	46.00	690.00	0.39	269.10	
	Total					769.07	
	RCC Drains Grant Total					7121.75	

Sl. No.	Description of Item	Measurments				Qty	Unit
		No.s	L	B	D		
	Culverts						
	Singapura Paradise 3rd Main Middle						
	16 mm	70	2.10	147.00	1.58	232.26	
	12 mm	34	7.00	238.00	0.89	211.82	
	Total					444.08	
	1st Cross Entrance to Wards S/S						
	16 mm	63	2.10	132.30	1.58	209.03	
	12 mm	34	6.25	212.50	0.89	189.13	
	Total					398.16	
	3rd Cross Entrance to Wards N/S						
	16 mm	68	2.10	142.80	1.58	225.62	
	12 mm	34	6.75	229.50	0.89	204.26	
	Total					429.88	
	Culvert Grand Total					1272.12	
						8393.87	Kgs
			Total Qty =				8.39 Tonnes
			Qty Ltd Approved Qty =				8.39 Tonnes


Assistant Engineer
Ward No. 15

N. helana shubdy


Assistant Executive Engineer
Vidyaranya Sub Division
B.B.M.P, Bangalore - 97